GENERAL MOTORS CORPORATION

EXECUTIVE ORDER A-006-1496 New On-Road Heavy-Duty Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

HODE!		ENGINE	FUEL TYPE	STANDARDS	INTENDED SERVICE	ECS & SPECIAL FEATURES 3
MODEL YEAR	ENGINE FAMILY	SIZES (L)		PROCEDURE	CLASS 2	
2008	8GMXH06.0584	6.0	Gasoline	Otto	HDO	2TWC, 2HO2S(2), SFI
NGINE (L	.)			MODELS / CODES (r		
6.0			LY	/6 / 40 (300), 60 (26	6), 80 (290)	
•						
*					<u> </u>	
•						Title 40. Code of Federal Regulations, Section 86.8

=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Trite 13, California Code of Regulations, Section xyz; 40 CFR 86 abc=Title 40, Code of Federal Regulations, Section 96 abc;

="not applicable; GVWR=gross vertice weight rating, 13 CUR xy2=Interts, california decay and applicable; GVWR=gross vertice weight rating, 13 CUR xy2=Interts, california decay duty Office, phe-horsepower; kw=kifowalt;

CNGLNG=compressed/liquefled natural gas; LPG=liquefled petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;

L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDD=heavy duty Office;

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ECS=amission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; HO25/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; SPL=smoke puff limiter; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; IDI/DDI=indirect/direct diesel injection; SPL=smoke puff limiter; IDI/

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.1 or 13 CCR 1956.8 are in parentheses.)

FTP EURO FTP EURO	НО	HC	М	P	:0	c	C+NOx	NMH	- T	N/		1 1111	
STD 0.14	EURO	FTP	EURO	FTP	EURO	FTP							
0.70 0.8	•	0.01		0.01	*	37.1	•	•		•	EURO		
	•	•	•	•		•	 	0.8	. 1	0.70	-	0.14	
ERT 0.08 * 0.49 * 0.6 * 6.6 * * 0.001	*	0.001	·	*	•	6.6	 ,		 , 			0.00	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(d) and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this ______ day of May 2007.

Annette Hebert, Chief

Mobile Source Operations Division